

KENTUCKY ADULT EDUCATION – STUDENT GUIDE

Standards for Mathematics

Level 2

Use Math to Solve Problems and Communicate

Student Name _____

Entry Date _____ Site _____

Recognize and Compare Numbers

The adult student is able to:

- _____ Name and use numbers in the ones, tens, hundreds and thousands place
- _____ Count by 100's as high as 10,000 and back from any number
- _____ Count by 10's as high as 10,000 and back from any number
- _____ Compare numbers up to 10,000
- _____ Use drawings to show *fractions*
- _____ Read aloud and write *decimals* to two places

Rounding and Estimation

The adult student is able to:

- _____ Round numbers to the nearest tens, hundreds, or thousands place
- _____ Estimate to check the reasonableness of results

Number Theory and Mathematical Symbols

The adult student is able to:

- _____ Explain how the number 0 acts in addition, subtraction, multiplication and division
- _____ Explain how the number 1 acts in multiplication and division
- _____ Explain why the order of numbers matters in subtraction but not addition
- _____ Explain how addition and subtraction are opposites
- _____ Explain how multiplication and division are opposites
- _____ Use *times* sign \times
- _____ Use *division* signs \div and $\overline{)}$
- _____ Use *greater than* sign $>$
- _____ Use *less than* sign $<$
- _____ Use *does not equal* sign \neq

Mathematical Operations

The adult student is able to:

- _____ Add whole numbers up to 10,000
- _____ Subtract whole numbers from as much as 10,000
- _____ Add and subtract like *fractions*
- _____ Add and subtract *decimals* through 2 *places*
- _____ Recall and state times tables through 10 x 10
- _____ Divide evenly into numbers 10 to 100
- _____ Solve word problems using $+$, $-$, \times , \div , $=$ or \neq
- _____ Use a calculator to check answers

Measurements

The adult student is able to:

- _____ Explain equal measurements
- _____ Tell time using *half* and *quarter* hours
- _____ Make change up to \$10.00 using coins and bills

Geometry

The adult student is able to:

- _____ Name and draw examples of 2-*dimensional* shapes
- _____ Name and give examples of 3-*dimensional* shapes
- _____ Find the *perimeter* of *rectangles* to solve word problems
- _____ Find the *area* of *rectangles* to solve word problems

Using Ratios, Proportions and Percents

The adult student is able to:

- _____ Explain the meaning of *percent*

Data Interpretation and Probability

The adult student is able to:

- _____ Discuss the information in a list
- _____ Discuss the information in a *bar graph*
- _____ Discuss the information in a *table*
- _____ Tell why titles and labels are important to the data
- _____ Discuss events as likely or unlikely

Number Line and Grids

The adult student is able to:

- _____ Explain how to *multiply* using a number line
- _____ Explain how to *divide* using a number line
- _____ Find and name points halfway between numbers on a number line
- _____ Name directions halfway between North and South, East and West

Algebra

The adult student is able to:

- _____ Continue simple *patterns* and number sequences
- _____ Create simple patterns
- _____ Change word problems into *number sentences*
- _____ Try answer choices in a *number sentence* to find the correct answer